



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,342	03/09/2001	Faramarz Farahi	33377/196876	7331

826 7590 05/07/2003

ALSTON & BIRD LLP
BANK OF AMERICA PLAZA
101 SOUTH TRYON STREET, SUITE 4000
CHARLOTTE, NC 28280-4000

EXAMINER

ULLAH, AKM E

ART UNIT PAPER NUMBER

2874

DATE MAILED: 05/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/803,342

Applicant(s)

FARAH, FARAMARZ

Examiner

Akm Enayet Ullah

Art Unit

2874

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 November 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 97-117 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 97-117 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of: _____
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2&5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Applicant cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Status of the Application

This application claims benefit of 60/ 194,663 filed on 04-04-2000.

A four (4)-way restriction was made in this application. Applicant's attorney elected Group I, claims 97-117 for an examination purpose.

Claims 118 –132 (other three 3 groups) have been cancelled. Prior to that applicant's attorney cancelled claims 1 - 96.

If applicant provides prior art, he/she is requested to cite it on form PTO-1449 in accordance with the guideline set forth in MPEP 609.

Drawings

This application has been filed with Formal drawings on November 27, 2002, which are entered in the application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2874

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 97- 100, 103-111 and 113 are rejected under 35 U.S.C. 102 (b) as being clearly anticipated by Heming et al. (U.S.P.NO. 5,480,687).

Claims 97- 100, 103-111 and 113 are rejected under 35 U.S.C. 102 (b) as being clearly anticipated by JP 11 202143 (Furukawa Electric Co.) cited by applicant--- the Japanese Patent Abstract.

Claims 97- 100, 103-111 and 113 are also rejected under 35 U.S.C. 102 (b) as being clearly anticipated by Electronic Letters by Li C-Y et al. (cited by applicant)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 101,102, 112 and 114-117 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heming et al. (U.S.P.NO. 5,480,687) in view of Deacon et al

(USPNO. 5,887,089) or Glass et al (USPNO. 5,363,398) or Feldman et al (USPATNO. 5,249,195).

In re to claims 101,102,112 and 114-117 limitations a rare earth ion chosen from the group consisting of erbium, ytterbium and neodymium ions; grating structures have a fixed periodicity: the plurality of optoelectronic interconnects are point-to-point waveguide and plurality of optoelectronic interconnects are point-to-multipoint waveguides are inherent in the above mentioned references and also very elementary teaching in this optoelectronic device as is shown by the above mentioned references.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize such optoelectronic device which consist of an erbium ions for an active region, as claimed the instant invention.

It is within the level of ordinary skill in the art to interconnects between a plurality of optoelectronic which are point to multipoint waveguides and also point to point waveguides in order to allow complex circuitry to be integrated in an all- optical environment.

Therefore, one of ordinary skill in the art would have found it an obvious design choice to incorporate an optoelectronic device having a flexible substrate and optical interconnect comprising a sol-gel based material formed on the flexible substrate which would include point to point waveguides, point to multipoint, multipoint to multipoint waveguides or in a combination, as it claimed in Heming et al in view of the abovementioned reference. Note that prior art may not need to express everything as it claimed as is cited by a recent case law as follows:

Schering Corp. v. Geneva Pharmaceuticals Inc., 64 USPQ2d 1032 (DC NJ 2002) Decided August 8, 2002. **The prior art disclosure need not be express in order to anticipate.** Even if a prior art inventor does not recognize a function of his or her process, the process can anticipate if that function was inherent. **To establish inherency,** the extrinsic evidence must make clear that the missing descriptive matter **is necessarily present** in the thing described in the reference, and **that it would be so recognized by persons of ordinary skill.** Inherency is not necessarily coterminous with the knowledge of those of ordinary skill in the art. Artisans of ordinary skill may not recognize the inherent characteristics or functioning of the prior art. However, the discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer. Insufficient prior understanding of the inherent properties of a known composition does not defeat a finding of anticipation.

Cited Prior Art

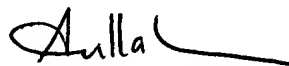
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Atanackovic et al, Lebby et al'760, Lebby et al'280 and Lebby et al'571 are also cited to show a typical optoelectronic device respectively.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Akm Enayet Ullah whose telephone number is 703-308-4885. The examiner can normally be reached on Mon.- Thurs. 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on 703-308 - 4819. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


Akm Enayet Ullah
Primary Examiner
Art Unit 2874

Application/Control Number: 09/803,342

Art Unit: 2874

Page 7

AUllah

April 22, 2003